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LIST OF CURRENT CLAIMS

1. (Currently Amended) A temperature sensing tube fabrication method

comprised comprising the steps of:

A step that provides for providing a tubular blank member of an appropriate

length[[.]];

A step in which a curvilinear semifinished product of the tube member forming a

curvilinear bottom end of the tubular member to define a bottom section aperture; is

formed.

A step in which a semifinished product of the forming a neck base and the a neck

body is formed. at a top end of the tubular member;

A step in which a finished product having forming an outer conoidal hem and an

inner conoidal hem is formed on the tubular member proximate to said neck base.

The said steps complete the fabrication of the temperature sensing tube.

2. (Currently Amended) As mentioned in claim 1 of the temperature sensing tube

fabrication method of the invention herein, The method according to claim 1, wherein

during the said step in which the said semifinished product of step of forming the said

neck base and the said neck body is formed, the said tube member bottom section aperture

is formed at the same time.

3. (Currently Amended) As-mentioned in claim 1 of the temperature sensing tube

fabrication method of the invention herein, The method according to claim 1, wherein the

curvilinear bottom end defining the bottom section aperture is formed having a bottom

section hole mount in a step between the said step in which the said semifinished product

of of forming the said neck base and the said neck body is formed and the step when the

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said finished product having of forming the said outer conoidal hem and the said inner

conoidal hem is formed also includes the forming the said semifinished product of the said

tube member bottom section hole mount.

4. (Currently Amended) A temperature sensing tube fabrication method

comprised comprising the steps of:

A step that provides for the said tubular blank providing a tubular member of an

appropriate length[[.]];

A step in which the said tubular blank formed in the previous step is moved

moving the tubular member between a first female die having a die cavity and a curved

bottom edge and a punching rod having a thin lengthy rod section and a curved front end

section for impact forging to thereby form the said curvilinear semifinished product of the

said tube member a curvilinear bottom end of the tubular member to define a bottom

section aperture[[.]];

A step in which the said semifinished product of the previous step is moved

moving the tubular member between a second female die having a die cavity and a curved

bottom edge and a punching die having a channel and a suitably long flared hole section at

its front end for impact forging to thereby form the said semifinished product of the said a

neck base and the said a neck body[[.]] at a top end of the tubular member;

A step in which the said semifinished product of the previous step is moved

moving the tubular member between a third female die having a die cavity and a curved

bottom edge and a punching die having a channel and a suitably long flared hole section at

its front end for impact forging to thereby further form the said semifinished product of the

said neck base and the said neck body[[.]];

A step in which the said semifinished product of the previous step is moved

moving the tubular member between a fourth female die having a die cavity, a circular

groove-shaped bottom edge, and a flared opening and a punching die having a channel, a

suitably long flared hole section at its front end, and a conical edge for impact forging to

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form the said finished product having the said an outer conoidal hem and the said an inner

conoidal hem.

The said steps complete the fabrication of the temperature sensing tube.

5. (Currently Amended) As mentioned in claim 4 of the temperature sensing tube

fabrication method of the invention herein, The method according to claim 4, wherein

during the said step in which the said semifinished product of forming the said neck base

and the said neck body is formed, the said third female die can be substituted by another

that has the said die cavity and the said includes a circular groove-shaped bottom edge to

form the said tube member a bottom section hole mount at the same time.

6. (Currently Amended) As-mentioned in claim-4 of the temperature sensing tube

fabrication method of the invention herein, The method according to claim 4, further

comprising between the said step in which the said semifinished product of step of

forming the said neck base and the said neck body is formed and that when the said

finished product having the step of forming the said outer conoidal hem and the said inner

conoidal hem, is formed further includes a step in which the said semifinished product of

the previous step is moved of moving the tubular member between the said a female die

having the said die a cavity and the said a circular groove-shaped bottom edge and the said

<u>a</u> punching die having the said <u>a</u> channel and the said <u>a</u> suitably long flared hole section at

its front end for impact forging to form the semifinished product having the said tube

member a bottom section hole mount.

7. (Withdrawn) A temperature sensor temperature sensing tube comprised of: A

head section having an outer conoidal hem formed along the circumference at its lower

extent, a neck section is formed at the center, and a passage is disposed in the said neck

section. The said tube member having a hollow interior section that is contiguous with the

said passage and the said aperture in its bottom section. The features of which are: the said

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head section and the said tube member are forged from the said tubular blank into a one-

piece, entirely unitary structural component, with the said head section outer conoidal hem

and neck section formed as extensions of the said tube member.

8. (Withdrawn) As mentioned in claim 7 of the temperature sensor temperature

sensing tube of the invention herein, after the said head section is extended from the said

tube member to form the said outer conoidal hem, the upper circumferential edge of the

said outer conoidal hem is bent into a U-shape such that it overlaps against the said outer

conoidal hem inner conoidal hem, following which the said neck section is formed from

the bottom section.

9. (Withdrawn) As mentioned in claim 7 of the temperature sensor temperature

sensing tube of the invention herein, the said neck section includes a gradually reduced

neck base which is larger than and formed upward from the said bottom section and

continues extending above into a neck body having an approximately equal tubular

diameter.

10. (Withdrawn) As mentioned in claim 7 of the temperature sensor temperature

sensing tube of the invention herein, the said passage includes a hole section of a

nominally constant inner diameter and a conic hole section of graduated reduction from

the bottom towards the top.

11. (Withdrawn) As mentioned in claim 7 of the temperature sensor temperature

sensing tube of the invention herein, the said tube member aperture is disposed in the said

hole mount formed inward at the said bottom section.